



**ALS**  
**Data Qualifier Flags**  
**Chromatography and Mass Spectrometry**

- U or ND:** This flag indicates that the compound was analyzed for but not detected.
- J:** This flag indicates an estimated value. This flag is used as follows : (1) when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed; (2) when the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the reporting limit (RL) but greater than the method detection limit (MDL); (3) when the data indicate the presence of a compound that meets the identification criteria, and the result is less than the RL but greater than the MDL; and (4) the reported value is estimated.
- B:** This flag is used when the analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user. This flag shall be used for a tentatively identified compound (TIC) as well as for a positively identified target compound.
- E:** This flag identifies compounds whose concentration exceeds the upper level of the calibration range.
- A:** This flag indicates that a tentatively identified compound is a suspected aldol-condensation product.
- X:** This flag indicates that the analyte was diluted below an accurate quantitation level.
- \*:** This flag indicates that a spike recovery is outside the control criteria.
- +:** This flag indicates that the relative percent difference (RPD) exceeds the control criteria.

# ALS Environmental -- FC

## Sample Number(s) Cross-Reference Table

---

**Paragon OrderNum:** 1008161

**Client Name:** Boston Chemical Corp

**Client Project Name:** Gulf Coast

**Client Project Number:**

**Client PO Number:**

---

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
DWH 151 W	1008161-1		WATER	10-Aug-10	6:35



ALS Environmental

www.alsenviro.com

excellence in analytical testing

Winnipeg, MB 745 Logan Avenue, R3E 3L5 Toll Free: 1-800-807-7888 Fax: 204-948-0763  
 Thunder Bay, ON 1081 Barton Street, P7B 6N3 Tel: 807-823-8463 Fax: 807-823-7586  
 London, ON, #29 - 309 Exeter Road, N6L 1C1 Tel: 819-882-6044 Fax: 819-882-0871  
 Burlington, ON #6 - 8420 Mainway Drive, L7L 8A4 Tel: 905-331-3111 Toll Free: 1-888-257-3884 Fax: 905-331-4587  
 Waterloo, ON #1 - 80 Northland Road, N2V 2B8 Toll Free: 1-800-888-9878 Fax: 519-888-9047  
 Ottawa, ON #13 - 210 Colonnade Road, K2E 7L8 Tel: 613-731-1005 Fax: 613-738-1107

1008/61

# CHAIN OF CUSTODY FORM

PAGE 1 OF 1

SEND REPORT TO:

COMPANY: Boston Chemical Data Corp.		ATTN: M. Kaltofen		ANALYSIS REQUESTED:											
ADDRESS: 2 Summer Street Suite 14															
CITY: Natick	STATE: MA	ZIP CODE: 01780													
TEL: 508 851 1661	FAX:	SAMPLER: Stronghead Silver													
PROJECT NAME AND NO: Gulf Coast		QUOTE NO:													
PO NO:	ALS CONTACT: Ron McLeod														
REPORT FORMAT:		<input type="checkbox"/> HARDCOPY <input checked="" type="checkbox"/> EMAIL - ADDRESS: kaltofen@aol.com <input type="checkbox"/> FAX <input checked="" type="checkbox"/> EXCEL <input checked="" type="checkbox"/> PDF <input type="checkbox"/> OTHER:													
FOR LAB USE ONLY	WOW	SAMPLE IDENTIFICATION	DATE / TIME COLLECTED		MATRIX	VOCs	PAH SIM	DRO	GRO	TPH	Biomarkers	TPH with Chromatogram	PAH	dispersive active ingredients	NOTES (sample specific comments, due dates, etc.)
			YYYY-MM-DD	TIME											
	①	DWHISLW	2010-10-08	10:35	Water										
TURN AROUND REQUIRED:		<input checked="" type="radio"/> ROUTINE <input type="radio"/> RUSH SPECIFY DATE: (surcharge may apply)		RELINQUISHED BY: Stronghead Silver		DATE: 8/19/10		RECEIVED BY: [Signature]		DATE: 11-Aug-10					
SEND INVOICE TO: Smith		<input type="checkbox"/> SAME AS REPORT <input checked="" type="checkbox"/> DIFFERENT FROM REPORT (provide details below)		RELINQUISHED BY: [Signature]		DATE: 8-13-10		RECEIVED BY: [Signature]		DATE: 8-13-10					
INVOICE FORMAT: Stag		<input type="checkbox"/> HARDCOPY <input type="checkbox"/> PDF <input type="checkbox"/> FAX		TIME: 09:20		TIME: 09:20		TIME: 09:20		TIME: 09:20					
SPECIAL INSTRUCTIONS: Invoice to third party as agreed															
FOR LAB USE ONLY															
Cooler Seal Intact?				Sample Temperature: 2 °C				Cooling Method?							
Yes No N/A				Frozen? 3 of 11 No				Icepacks Ice None							



## CONDITION OF SAMPLE UPON RECEIPT FORM

Client:

ALC Burlington

Workorder No:

1008161

Project Manager:

JK

Initials:

OKO

Date:

8-13-10

1. Does this project require any special handling in addition to standard Paragon procedures?		YES	NO	
2. Are custody seals on shipping containers intact?	NONE	YES	NO	
3. Are Custody seals on sample containers intact?	NONE	YES	NO	
4. Is there a COC (Chain-of-Custody) present or other representative documents?		YES	NO	
5. Are the COC and bottle labels complete and legible?		YES	NO	
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		YES	NO	
7. Were airbills / shipping documents present and/or removable?	DROP OFF	YES	NO	
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	N/A	YES	NO	
9. Are all aqueous non-preserved samples pH 4-9?	N/A	YES	NO	
10. Is there sufficient sample for the requested analyses?		YES	NO	
11. Were all samples placed in the proper containers for the requested analyses?		YES	NO	
12. Are all samples within holding times for the requested analyses?		YES	NO	
13. Were all sample containers received intact? (not broken or leaking, etc.)		YES	NO	
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: < green pea > green pea	N/A	YES	NO	
15. Do perchlorate LCMS-MS samples have headspace? (at least 1/3 of container required)	N/A	YES	NO	
16. Were samples checked for and free from the presence of residual chlorine? (Applicable when PM has indicated samples are from a chlorinated water source; note if field preservation with sodium thiosulfate was not observed.)	N/A	YES	NO	
17. Were the samples shipped on ice?		YES	NO	
18. Were cooler temperatures measured at 0.1-6.0°C?	IR gun used*: #2 #4	RAD ONLY	YES	NO
Cooler #: <u>1</u>				
Temperature (°C): <u>5.4</u>				
No. of custody seals on cooler: <u>0</u>				
External µR/hr reading: <u>12</u>				
Background µR/hr reading: <u>11</u>				
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES / NO / NA (If no, see Form 008.)				

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16

If applicable, was the client contacted? YES / NO / NA

Contact:

H. Kallala

Date/Time:

8/12/10

Project Manager Signature / Date:

[Signature]8/17/10

\*IR Gun #2: Oakton, SN 29922500201-0066

\*IR Gun #4: Oakton, SN 2372220101-0002

From: Origin ID: YATA (905) 331-3111  
 Brandon Gingrich  
 ALS Environmental  
 5420 Mainway Drive unit 5



J10281005250325

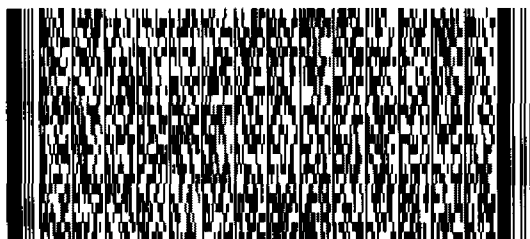
Burlington, ON L7L6A4  
 CANADA

SHIP TO: (970) 490-1511

BILL SENDER

Jeff Kujawa  
 ALS Environmental  
 225 COMMERCE DR

FORT COLLINS, CO 80524  
 US



These commodities, technology, or software were exported from Canada in accordance with the export administration regulations. Diversion contrary to Canadian law prohibited.

The Warsaw Convention may apply and will govern and in most cases limit the liability of Federal Express for loss or delay of or damage to your shipment. Subject to the conditions of the contract

CONSIGNEE COPY - PLEASE PLACE IN POUCH

Ship Date: 12AUG10  
 ActWgt: 17.0 LB  
 CAD: 8904531/INCA3060

Dims: 10 X 10 X 12 IN

REF:  
 DESC-1: Environmental Samples  
 DESC-2:  
 DESC-3:  
 DESC-4:

COUNTRY MFG: CA  
 CARRIAGE VALUE: 2.00 CAD  
 CUSTOMS VALUE: 2.00 CAD  
 T/C: S 311493060 D/T: S 311493060  
 SIGN: Brandon Gingrich  
 EIN/VAT:  
 PKG TYPE: CUSTOMER

TRK# 7938 1823 2090  
 0430

A2

INTL PRIORITY

ISR

80524

CO-US

DEN

NR FTCA



58BG43306/9A24

**After printing this label:**

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

**Warning:** Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

**LEGAL TERMS AND CONDITIONS OF FEDEX SHIPPING DEFINITIONS:** On this Air Waybill, "we", "our", "us", and "FedEx" refer to Federal Express Corporation, its subsidiaries and branches and their respective employees, agents, and independent contractors. The terms "you" and "your" refer to the shipper, its employees, principals and agents. If your shipment originates outside the United States, your contract of carriage is with the FedEx subsidiary, branch or independent contractor who originally accepts the shipment from you. The term "package" means any container or envelope that is accepted by us for delivery, including any such items tendered by you utilizing our automated systems, meters, manifests or waybills. The term "shipment" means all packages which are tendered to and accepted by us on a single Air Waybill. **AIR CARRIAGE NOTICE:** For any international shipments by air, the Warsaw Convention, as amended, may be applicable. The Warsaw Convention, as amended, will then govern and in most cases limit FedEx's liability for loss, delay of, or damage to your shipment. The Warsaw Convention, as amended, limits FedEx's liability. For example in the U.S., liability is limited to \$9.07 per pound (20\$ per kilogram), unless a higher value for carriage is declared as described below and you pay any applicable supplementary charges. The interpretation and operation of the Warsaw Convention's liability limits may vary in each country. There are no specific stopping places which are agreed to and FedEx reserves the right to route the shipment in any way FedEx deems appropriate. **ROAD TRANSPORT NOTICE:** Shipments transported solely by road to or from a country which is a party to the Warsaw Convention or the Contract for the International Carriage of Goods by Road (the "CMR") are subject to the terms and conditions of the CMR, notwithstanding any other provision of this Air Waybill to the contrary. For those shipments transported solely by road, if a conflict arises between the provisions of the CMR and this Air Waybill, the terms of the CMR shall prevail. **LIMITATION OF LIABILITY:** If not governed by the Warsaw Convention, the CMR, or other international treaties, laws, other government regulations, orders, or requirements, FedEx's maximum liability for damage, loss, delay, shortage, mis-delivery, non-delivery, misinformation or failure to provide information in connection with your shipment is limited by this Agreement and as set out in the terms and conditions of the contract of carriage. Please refer to the contract of carriage set forth in the applicable FedEx Service Guide or its equivalent to determine the contractual limitation. FedEx does not provide cargo liability or all-risk insurance, but you may pay an additional charge for each additional U.S. \$100 (or equivalent local currency for the country of origin) of declared value for carriage. If a higher value for carriage is declared and the additional charge is paid, FedEx's maximum liability will be the lesser of the declared value for carriage or your actual damages. **LIABILITIES NOT ASSUMED:** IN ANY EVENT, FEDEX WON'T BE LIABLE FOR ANY DAMAGES, WHETHER DIRECT, INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL IN EXCESS OF THE DECLARED VALUE FOR CARRIAGE (INCLUDING BUT NOT LIMITED TO LOSS OF INCOME OR PROFITS) OR THE ACTUAL VALUE OF THE SHIPMENT, IF LOWER, WHETHER OR NOT FEDEX HAD ANY KNOWLEDGE THAT SUCH DAMAGES MIGHT BE INCURRED. FedEx won't be liable for your acts or omissions, including but not limited to incorrect declaration of cargo, improper or insufficient packaging, securing, marking or addressing of the shipment, or for the acts or omissions of the recipient or anyone else with an interest in the shipment or violations by any party of the terms of this agreement. FedEx won't be liable for damage, loss, delay, shortage, mis-delivery, non-delivery, misinformation or failure to provide information in connection with shipments of cash, currency or other prohibited items or in instances beyond our control, such as acts of God, perils of the air, weather conditions, mechanical delays, acts of public enemies, war, strike, civil commotion, or acts or omissions of public authorities (including customs and health officials) with actual or apparent authority. **NO WARRANTY:** We make no warranties, express or implied. **CLAIMS FOR LOSS, DAMAGE OR DELAY:** ALL CLAIMS MUST BE MADE IN WRITING AND WITHIN STRICT TIME LIMITS. SEE OUR TARIFF, APPLICABLE FEDEX SERVICE GUIDE, OR STANDARD CONDITIONS OF CARRIAGE FOR DETAILS. The Warsaw Convention provides specific written claims procedures for damage, delay or non-delivery of your shipment. Moreover, the interpretation and operation of the Warsaw Convention's claims provisions may vary in each country. Refer to the Convention to determine the claims period for your shipment. The right to damages against us shall be extinguished unless an action is brought within two years, as set forth in the Convention. FedEx is not obligated to act on any claim until all transportation charges have been paid. The claim amount may not be deducted from the transportation charges. If the recipient accepts the shipment without noting any damage on the delivery record, FedEx will assume the shipment was delivered in good condition. In order for us to consider a claim for damage, the contents, original shipping carton and packing must be made available to us for inspection. **MANDATORY LAW:** Insofar as any provision contained or referred to in this Air Waybill may be contrary to any applicable international treaties, laws, government regulations, orders or requirements such provisions shall remain in effect as a part of our agreement to the extent that it is not overridden. The invalidity or unenforceability of any provisions shall not affect any other part of this Air Waybill. Unless otherwise indicated, **FEDERAL EXPRESS CORPORATION**, 2005 Corporate Avenue, Memphis, TN 38132, USA, is the first carrier of this shipment. Email address located at [www.fedex.com](http://www.fedex.com)

# Oil Dispersants by EPA R5/6 LC

Method EPA.R5/6LC

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1008161

Client Name: Boston Chemical Corp

ClientProject ID: Gulf Coast

Lab ID: LM100816-2MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 16-Aug-10

Date Analyzed: 17-Aug-10

Prep Method: METHOD

Prep Batch: LM100816-2

QCBatchID: LM100816-2-1

Run ID: LM100816-2A

Cleanup: NONE

Basis: N/A

File Name: DISP081610

Sample Aliquot: 4 ml

Final Volume: 4 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	Result Qualifier	EPA Qualifier
111-76-2	2-BUTOXY-ETHANOL	1	125	125	U	
29911-28-2	DI(PROPYLENE GLYCOL) BUTYL ETHE	1	1	1	U	

## Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
20427-84-3	normal-NONYLPHENOL DIETHOXYLATE	18.369		37.5	49	25 - 125

Data Package ID: LM1008161-2

Date Printed: Wednesday, August 25, 2010

ALS Environmental -- FC

LIMS Version: 6.393A

Page 1 of 1

# Oil Dispersants by EPA R5/6 LC

## Method EPA.R5/6LC

### Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1008161

Client Name: Boston Chemical Corp

ClientProject ID: Gulf Coast

Field ID:	DWH 151 W
Lab ID:	1008161-1

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 10-Aug-10

Date Extracted: 16-Aug-10

Date Analyzed: 17-Aug-10

Prep Method: METHOD

Prep Batch: LM100816-2

QCBatchID: LM100816-2-1

Run ID: LM100816-2A

Cleanup: NONE

Basis: As Received

File Name: DISP081610

Sample Aliquot: 4 ml

Final Volume: 4 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
111-76-2	2-BUTOXY-ETHANOL	1	125	125	U	
29911-28-2	DI(PROPYLENE GLYCOL) BUTYL ETHER	1	2.4628	1		

### Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
20427-84-3	normal-NONYLPHENOL DIETHOXYLATE	11.142		37.5	30	25 - 125

Data Package ID: LM1008161-2

# Surrogate Summary for LCMS/MS

Method EPA.R5/6LC

Lab Name: ALS Environmental -- FC

Work Order Number: 1008161

Client Name: Boston Chemical Corp

ClientProject ID: Gulf Coast

PrepBatchID: LM100816-2

QC Batch ID: LM100816-2-1

Date Extracted: 8/16/2010

Lab ID	Client Sample ID	Date Collected	Date Received	normal-NONYLPHENOL DIETHOXYLATE (% Recovery)	Lower Limit (%)	Upper Limit (%)
1008161-1	DWH 151 W	8/10/2010	8/13/2010	30	25	125
LM100816-2MB	LABQC	8/16/2010	8/12/2010	49	25	125
LM100816-2LCS	LABQC	8/16/2010	8/12/2010	80	25	125
LM100816-2LCSD	LABQC	8/16/2010	8/12/2010	77	25	125

Data Package ID: LM1008161-2

Date Printed: Wednesday, August 25, 2010

ALS Environmental -- FC

Page 1 of 1

Shaded values exceed established control limits.

LIMS Version: 6.393A



# Oil Dispersants by EPA R5/6 LC

## Method EPA.R5/6LC

### Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC

Work Order Number: 1008161

Client Name: Boston Chemical Corp

ClientProject ID: Gulf Coast

Lab ID: LM100816-2LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 08/16/2010

Date Analyzed: 08/17/2010

Prep Method: METHOD

Prep Batch: LM100816-2

QCBatchID: LM100816-2-1

Run ID: LM100816-2A

Cleanup: NONE

Basis: N/A

File Name: DISP081610

Sample Aliquot: 4 ml

Final Volume: 4 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
111-76-2	2-BUTOXY-ETHANOL	300	335.73	125		112	50 - 150%
29911-28-2	DI(PROPYLENE GLYCOL) BUTYL ETHER	2.4	10.608	1	*	442	50 - 150%

Lab ID: LM100816-2LCSD

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 08/16/2010

Date Analyzed: 08/17/2010

Prep Method: METHOD

Prep Batch: LM100816-2

QCBatchID: LM100816-2-1

Run ID: LM100816-2A

Cleanup: NONE

Basis: N/A

File Name: DISP081610

Sample Aliquot: 4 ml

Final Volume: 4 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
111-76-2	2-BUTOXY-ETHANOL	300	284.22	125		95	30	17
29911-28-2	DI(PROPYLENE GLYCOL) BUTYL ETHER	2.4	1.8528	1	+	77	30	141

### Surrogate Recovery LCS/LCSD

CASNO	Target Analyte	Spike Added	LCS % Rec.	LCS Flag	LCSD % Rec.	LCSD Flag	Control Limits
20427-84-3	normal-NONYLPHENOL DIETHOXYLA	37.5	80		77		25 - 125

Data Package ID: LM1008161-2

# Oil Dispersants by EPA R5/6 LC

## Method EPA.R5/6LC Calibration Verifications

Lab Name: ALS Environmental -- FC

Work Order Number: 1008161

Client Name: Boston Chemical Corp

ClientProject ID: Gulf Coast

Lab ID: ICV

QC Type: Initial Calibration

File Name: DISP081610

Run ID: LM100816-2A

Date Analyzed: 08/17/2010

Time Analyzed: 0:39

Result Units: UG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
111-76-2	2-BUTOXY-ETHANOL	375	368	125		98	70 - 130%
29911-28-2	DI(PROPYLENE GLYCOL) BUTYL ETHE	3	2.55	1		85	70 - 130%
20427-84-3	normal-NONYLPHENOL DIETHOXYLATE						70 - 130%

Data Package ID: LM1008161-2

Date Printed: Wednesday, August 25, 2010

ALS Environmental -- FC

LIMS Version: 6.393A

Page 1 of 4

# Oil Dispersants by EPA R5/6 LC

## Method EPA.R5/6LC Calibration Verifications

Lab Name: ALS Environmental -- FC

Work Order Number: 1008161

Client Name: Boston Chemical Corp

ClientProject ID: Gulf Coast

Lab ID: CCV1

QC Type: Continuing Calibration

File Name: DISP081610

Run ID: LM100816-2A

Date Analyzed: 08/17/2010

Time Analyzed: 3:26

Result Units: UG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
111-76-2	2-BUTOXY-ETHANOL	375	315	125		84	70 - 130%
29911-28-2	DI(PROPYLENE GLYCOL) BUTYL ETHE	3	2.12	1		71	70 - 130%
20427-84-3	normal-NONYLPHENOL DIETHOXYLATE	29.7	24.1			81	70 - 130%

Data Package ID: LM1008161-2

Date Printed: Wednesday, August 25, 2010

ALS Environmental -- FC

LIMS Version: 6.393A

Page 3 of 4